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Jul 23, 1983

DERWENT-ACC-NO: 1984-111964

DERWENT-WEEK: 198418

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TITLE: Polyester textile fabric modification - with aq. caustic soln. and glow discharge plasma, to improve antistatic, hydrophilic and anti-soiling properties

INVENTOR: AKULOVA, M V; BLINICHEVA, I B ; MELNIKOV, B V

PATENT-ASSIGNEE:

ASSIGNEE

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PRIORITY-DATA: 1981SU-3292291 (May 27, 1981)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>SU 1030445 A</u>	July 23, 1983		003	

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
SU 1030445A	May 27, 1981	1981SU-3292291	

INT-CL (IPC): D06M 5/02; D06M 10/00

ABSTRACTED-PUB-NO: SU 1030445A

BASIC-ABSTRACT:

The modification involves: treating for 2-5 mins with a soln. contg. 5-25g/l alkali metal hydroxide: treating 60-90 secs in a gas-discharged at current density 0.014-0.027 A/cm and press. .9-40 Pa. As previously, the process involves treating with alkali metal hydroxide soln. at elevated temp. and then with plasma.

In an example, fabric composed of 50/50 cotton/lavsan mixt. was treated 3 mins. at 100 deg. C in 5g/l NaOH before washing with hot and cold water, drying and treating with plasma in an alternating gas discharge (freq. 50 Hz; press. 23.9 Pa; current density 0.014 A/cm) in air for 60 secs. Untreated fabric and fabric treated by proposed and previous method respectively gave results: capillarity 9.1, 19.5 and 15.5 cm/hr; electrical resistivity 180, 44 and 100 giga Ohm; degree of soiling 90.6, 50.1 and 106.7 relative units. Bul.27/23.7.83.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: POLYESTER TEXTILE FABRIC MODIFIED AQUEOUS CAUSTIC SOLUTION GLOW DISCHARGE PLASMA IMPROVE ANTISTATIC HYDROPHILIC ANTI SOIL PROPERTIES

DERWENT-CLASS: A23 F06

CPI-CODES: A05-E01B; A10-E05; A11-C05; A12-S05R; A12-S05T; F03-C; F03-C02; F03-C05;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1514U

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## SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1984-047533

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